



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,868	09/16/2003	Charles Lord	101950.00144	3121

7590 08/15/2005
Robert C. Klinger
Jackson Walker LLP
Suite 600
2435 North Central Expressway
Richardson, TX 75080

EXAMINER

DATSKOVSKIY, MICHAEL V

ART UNIT	PAPER NUMBER
----------	--------------

2835

DATE MAILED: 08/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

H.A

Office Action Summary	Application No.	Applicant(s)	
	10/663,868	LORD, CHARLES	
	Examiner	Art Unit	
	Michael V. Datskovskiy	2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-10, 12, 14, 18, 20, 21, 24, 25, 32 and 34-39 is/are rejected.
- 7) ☒ Claim(s) 4, 5, 11, 13, 15-17, 19, 22, 23, 26-31 and 33 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Applicant is advised that should claims 4 - 5 and 22 – 23 be found allowable, claims 5 and 23 will be objected to under 37 CFR 1.75 as being a substantial duplicate of claims 4 and 22 respectively. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

3. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: Exhaust and intake ports are located on the opposite sides of the claimed cooling system and it is not possible for them to face each other.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-3, 6-10, 12, 14, 18, 20-21, 24-25, 32, 34-39 are rejected under 35 U.S.C. 102(b) as being anticipated by Sonobe et al.

Sonobe et al teach a cooling system, Figs. 1-16, comprising: a plenum 100 formed of a thermally conductive material and having a base 100a including a plurality of passageways 105 adapted to pass air therethrough, the passageways 105 being defined by a plurality of collinear fins 100g extending in a plurality of rows outwardly from an upper surface of the base 100a; the plenum further comprising at least one receptacle 114 outwardly extending from a bottom surface of the base 100a in the opposite direction than fins 100g; and a heat generating electrical component 130 received in the receptacle 114, wherein heat generated by the component 130 is transferred by the receptacle 114 to fins 100g. Sonobe et al teach furthermore: said cooling system further comprising: fans 103 creating air flow from intake opposite fans 130 to exhaust opening of the fans; a lid member 101 coupled to the plenum to define the passageways 105, wherein fins 100g separate one passageway from another passageway. Regarding to the claims 37-39: Sonobe et al teach all the limitations of the claims except said heat generating component is a resistor (claim 37); a transistor

Art Unit: 2835

(claim 38) or an integrated circuit (claim 39). However, Sonobe et al teach the heat generating component 130 as being an amplifying module, which inherently comprises such electronic components.

Allowable Subject Matter

7. Claims 11, 13, 15-17, 19, 26-31, 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. Claims 4-5 and 22-23 would be allowable if rewritten to overcome objections, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

9. The following is a statement of reasons for the indication of allowable subject matter: Said base comprises a pair of electrically conductive portions separated from each other (claims 4-5 and 22-23); The exhaust port opens laterally from the base (claim 11); The base further comprises a plurality of openings extending therethrough and communicating with the passageways, the opening adapted to generate a venture effect, when air is flowing through the passageways (claims 13, 19, 26-31); The plenum receptacle is adapted to receive the heat generating component in a friction fit arrangement (claims 15-17, 33) .

10. The prior art made of record in the PTO Form 892 and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2835

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Datskovskiy whose telephone number is (571) 272-2040. The examiner can normally be reached on 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael V Datskovskiy
Primary Examiner
Art Unit 2835

08/11/2005